

**ONE**  
**FOR ALL**<sup>®</sup>

**3**

**ZAPPER**<sup>™</sup>

URC-6532  
701598

**UK** Universal remote

**D**

**F**

**E**

**P**

**I**

**NL**



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UK

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## About Your ZAPPER

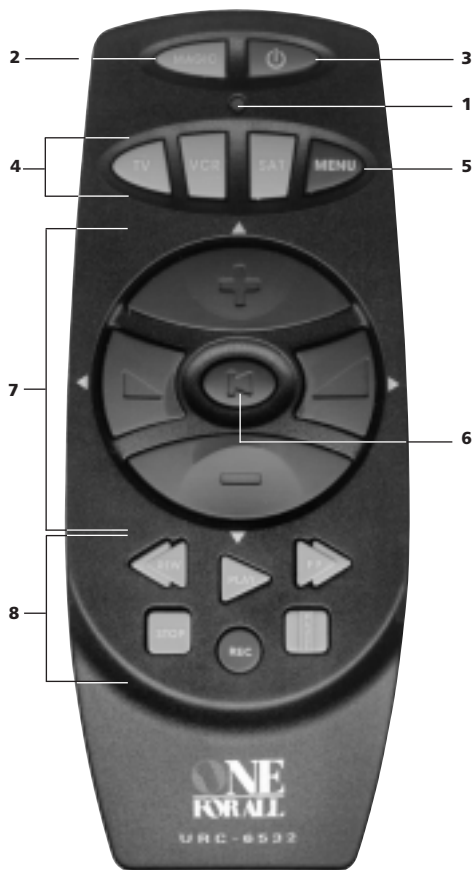
Thank you for purchasing the ZAPPER 3 universal remote control (URC-6532). Your ZAPPER package contains:

- The ZAPPER Remote Control
- The ZAPPER User Guide & Code Book

The User Guide & Code Book explains in simple steps how to set up and operate your new universal remote control. **You may need this guide again in the future, so please be sure to keep it.**

Your ZAPPER needs 2 new "AAA/LR03" batteries.

Your ZAPPER is designed to let you use one remote to operate your Television, VCR and Satellite Receiver (or Cable Converter).



# Installing The Batteries

The ZAPPER needs 2 new "AAA/LRO3" alkaline batteries.

- 1 Remove the battery cover from the back of the ZAPPER by pressing down on the tab.
- 2 Match the batteries to the +/- marks inside the battery case, then insert the batteries.
- 3 Press the battery cover back into place.

## Important notes:

- In order to avoid having to reprogram your ZAPPER after you remove the batteries, you will need to insert new batteries within 5 minutes.
- Also, it is best that you do not use rechargeable batteries.
- **On the inside of the battery compartment door you will find a label on which to write your set-up codes after your ZAPPER is set up for your devices. Please write down your codes for easy, future reference.**

# Features and Functions

See picture of the ZAPPER 3 remote on page 3.

- 1 **LED**  
The LED (Light Emitting Diode) will flash red when a key is pressed to show the remote is working
- 2 **Magic**  
The MAGIC key is used to set up your ZAPPER and to access special features.
- 3 **Power**  
The Power key turns your devices both on and off.
- 4 **Device Keys**  
The TV ,VCR and SAT keys select the home entertainment device to be controlled. Pressing the TV key allows the remote to control the functions of your Television. After pressing VCR you can operate your Video Cassette Recorder. After pressing SAT, you can operate your Satellite Receiver or Cable Converter.

## **5 Menu Key (for SAT only)**

When in SAT operation, the Menu key controls the same function as it did on your original remote.

## **6 Mute/OK**

The Mute key operates the same function it did on your original remote. It is also used to activate the Scan feature (page 10). When in SAT operation, whilst in Menu mode, the Mute key will operate the OK function.

## **7 Volume+/-, Programme +/-**

The Volume and Programme keys operate just as on your original remote control. These keys are also used to program the ZAPPER for your devices and to control the Colour and Brightness settings of your television (page 10). When in SAT operation, whilst in Menu mode, these keys can be used as navigation keys.




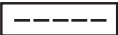
## **8 Video Recorder Keys**

After pressing the VCR key, the Video Recorder keys operate the functions of your Video Recorder. To prevent accidental recordings, the Record key must be pressed twice.



# Setting Up The ZAPPER


## Direct Set-Up

To set up the ZAPPER for your Television, Video and Satellite Receiver (or Cable Converter) follow the instructions below. To set up your Television:

-  Find your Television code in the Set-Up Code section (page 66-80). Codes are listed by brand name. The most popular codes are listed first. **Make sure that your Television is switched on (not in standby).**
-  Press and release the **TV** key to select the device.
-  **Press and hold down MAGIC** until the red light blinks twice (it will blink once then twice).
-  **Enter your 5-digit** code according to the chart below. The red light will blink twice.

Volume +		=	1
Volume -		=	2

Programme +		=	3
Programme -		=	4

-  Now, aim the ZAPPER at your Television and press **POWER**. If your Television switches off, your ZAPPER should be ready to operate your device.
- Turn your device back on and try all the remote's functions to ensure they are working properly. If the functions do not work properly, repeat steps 1-6 using another code listed under your brand.
- Write the codes for your TV, VCR and SAT in the boxes provided on page 7 and inside the battery compartment for easy future reference.**

**Important notes:**

- To set up your Video Recorder, Satellite Receiver or Cable Converter, follow the same instructions above, only press the VCR or SAT key during step 2.
- Some codes are quite similar. If your device does not respond or is not functioning properly with one of the codes, follow steps 1-6 with each code listed for your brand.
- If none of the codes listed for your brand operate your device, follow the Search Method described in the next section. The Search Method can be used even if your brand is not listed at all.
- Remember, to control your device after you have programmed it with the ZAPPER, you must press the device key first (TV, VCR or SAT).

**TV Code**

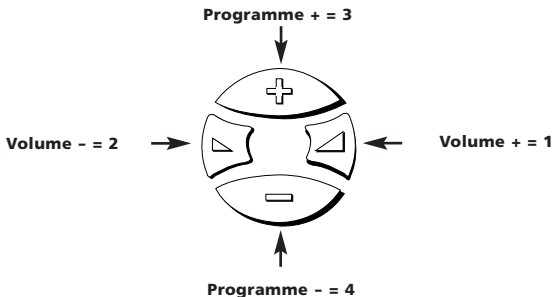
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**VCR Code**

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**SAT/Cable Code**

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(Example: To enter the Sony TV code 24432, you would press Volume(-), Programme(-), Programme(-), Programme(+), Volume(-).

If your device does not respond to the ZAPPER after you have tried all the codes listed for your brand, try the Search Method.

**Make sure you write your correct 5 digit codes in the boxes provided inside the battery compartment and on this page.**

## Search Method

If your Television, VCR, Satellite or Cable Converter does not respond to the ZAPPER after trying all the codes listed for your brand, try searching for your code. The Searching Method allows you to find the code of your device by scanning through all the codes contained in the memory of the ONE FOR ALL remote control. To search for your TV code:

- 1** Make sure that your Television is switched on (not in standby).
-  **2** Press the **TV** key on the ZAPPER.
-  **3** **Press and hold down MAGIC** until the red light blinks twice (it will blink once then twice).
-   
  
 **4** Next, press the **Programme(-)** key **three times**.
-   
 **5** Next, slowly alternate between **TV** and **POWER** until your Television turns off. You may have to press these keys many times, so be patient. Remember, you must aim the ZAPPER at your device the entire time you are searching for your code.
-  **6** When your device turns off, press and release **MAGIC**, to store the code.

The zapper should now be ready to operate your television. Turn your television back on and try all the remote's functions to ensure they are working properly. If some of the ZAPPER'S commands are not operating correctly, try the search method again, you may be using the wrong code.

### Important notes:









- To search for the code for your VCR, Satellite Receiver or Cable Converter, follow the same instructions above, only press the VCR or SAT key during step 2 and 5.
- If your Video's original remote control does not have a power key, press **PLAY** instead of **POWER** when searching for your code.
- During step 5, you may have to press these keys many times (up to 150!), so be patient. Remember, you must aim the ZAPPER at your device the entire time you are searching for your code.



## Code Blink Out

After you have used the Search Method, you can find out which code the ZAPPER responded to by blinking back the code. It's useful to know your Television, Video, Satellite Receiver or Cable Converter code for future reference. **Remember, you can only blink back your code after the ZAPPER is operating your device.**

To blink out your TV code:

-  Press the **TV** key on the ZAPPER.
-  Press and hold the **MAGIC** key until the red light blinks twice (it will blink once then twice).
-  Next, press **Programme(-)**, **Programme(-)**, **Programme(+)**.
-  For the first digit of your 5-digit code, press **Volume +** (▲) and count all the red blinks.
-  For the second digit, press **Volume -** (▼) and count all the red blinks.
-  For the third digit, press **Programme(+)** and count all the red blinks.
-  For the fourth digit, press **Programme(-)** and count all the red blinks.
-  For the fifth digit, press **MUTE** and count all the red blinks.









Now you have your 5-digit code. Write your code in the boxes provided previously and inside the battery compartment for easy, future reference.

**Important note:** To blink out the code for your Video Recorder, Satellite Receiver or Cable Converter, follow the same instructions above, only press the VCR or SAT key during step 1.

# Advanced Operation

## Controlling Colour & Brightness

Depending on the functions of your original remote control, the ZAPPER may operate the colour and brightness settings of your Television.


Colour up =	Press		then hold	
Colour down =	Press		then hold	
Brightness up =	Press		then hold	
Brightness down =	Press		then hold	

**Note:** You have 5 seconds to press the Volume or Channel keys for colour or brightness adjustment after pressing MAGIC.


## Scan

Your ZAPPER comes with a special Scan function which lets you "scan" through every programme available on your TV, VCR, Satellite or Cable Box.


For example, to scan the programmes on your TV:

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Aim the ZAPPER at your TV. Press the **TV** key. Press and release **MAGIC** then press the **MUTE** key.



The ZAPPER will send the command to advance through all the programmes available on your Television stopping at each programme for about three seconds. Remember, you must aim the ZAPPER at your device the entire time you are using scan.


- When you find a programme you would like to watch, simply press **any key** to stop the Scan feature.

### Important notes:

- To use Scan with your Video, Satellite or Cable Box, follow the same instructions above, only press the VCR or SAT key during step 1.
- Scan may not function with devices that did not have a Programme +/- key on the original remote control.

# Trouble-Shooting

## Helpful Hints

<b>Problem:</b>	<b>Solution:</b>
Your brand is not listed in the ONE FOR ALL code section?	Try the search method.
The ONE FOR ALL does not operate your device?	A) Try all the codes listed for your brand. B) Try the search method.
The ONE FOR ALL is not performing commands properly?	You may be using the wrong code. Try Direct Set-Up again trying each code listed under your brand or start the search method over again to locate the proper code.
Your TV switches to programme 1 when you press the POWER key before switching off OR you must press POWER twice to switch on your TV?	Press TV, then press MAGIC until the red light blinks twice. Then press: (Programme-) (Programme+) (Programme-)
You cannot reach channel 10 and above on your TV or Satellite.	If your original remote did not have channel +/- keys, the Zapper may not operate this function.
Video not recording?	As a safety feature on your ONE FOR ALL, you must press the Record key <b>twice</b> .
The ONE FOR ALL does not respond after pressing a key?	Make sure you are using new batteries and are aiming the ONE FOR ALL at your device.
The red light does not blink when you press a key?	Replace batteries with 2 new "AAA/LR03" alkaline batteries

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## Televisions

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## Fernseher

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## Téléviseurs

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## Televisores

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## Televisões

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## Televisori

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## Televisies

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4710991	A.R. Systems	31341	22311
4711271	Abex	11311	
4711306	Accent	31341	
4712089	Acec	11141	
4710010	Admiral	12224	12242 23313 14222 21131
4710012	Adyson	14232	14231
4711080	Agashi	14231	21131
4710015	AGB	31121	
4710997	Agef	12224	
4710017	Aiko	14231	11132 22414 31341 11314 23412 12131 22332 21131 14232
4710018	Aim	31341	21213
4710020	Akai	22332	14211 22414 23412 11314 11132 12131 14233 13314 31121 32233 31341 32122 24311 14232 32424 14231 21131 24111 13413 22432 32243
4710021	Akiba	14233	21233 24124 31341
4710022	Akito	31341	
4710023	Akura	14233	21233 21221 11132 22323 23241 13334 21131 33241 31341
4711267	Alaron	14231	
4710024	Alba	14233	14334 11132 23313 22413 22314 22414 14231 14424 13314 32122 31341 24324 11321 33241 32114
4710026	Alcyon	12141	
4710029	Allorgan	14143	21323 14232
4710032	Allstar	31341	
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4711094	Anam	31341	11132
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4710045	Anitech	11132	12141 21131 31341
4710047	Ansonic	22413	21321 12323 11132 22423 13314 23234 21114 14424 11141 23341 31341
4710050	Apollo	24232	
4710053	Arc en Ciel	23144	12342 14121 31431 22142 14123
4710054	Arcam	14231	23144 14232
4710057	Aristona	31341	11141
4710059	Arthur Martin	13314	23211
4710060	ASA	12332	22233 12123 12331 12224
4710062	Asberg	31341	12141
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4710070	Asuka	14233	21131 14231 21233 14232
4710072	Atlantic	31341	14231 14143 21114 22111
4710074	Atori	11132	
4710075	Auchan	13314	23211
4710080	Audiosonic	31341	12342 14232 22413 22212 21131 14233 23341
4710081	Audioton	14232	22413 21131
4710084	Ausind	12141	
4710085	Autovox	12224	14143 14342 12141 14232 14424
4711156	Awa	11134	11321 11132 13242 22423 23241 14231 32243 31341
4711081	Ayomi	14343	
4711098	AYR	31224	
4710091	Baird	12342	14112 22224 13443 14111 12131 12132 14232 14211
4710093	Bang & Olufsen	31422	12224
4710094	Barco	22441	13314
4710097	Basic Line	14233	11132 22423 31341 13314 21233
4710098	Bastide	14232	
4710099	Baur	13213	21344 31224 14114 22332 24432 31341
4711082	Bazin	14232	
4711079	Beaumark	13413	
4710103	Beko	22413	32243 31341
4710105	Beon	31341	23313 11311
4710106	Best	22212	22413 23322
4710107	Bestar	31341	22413 22423
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 21233 22314 22414 22423 21131  
 22332 24324 14211 32122 21323  
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 4710151 Carrefour 11321 12123 11432  
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 4710154 Casio 31341  
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 4710160 Centurion 31341  
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 23313 22413  
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4710437 Kingsley	23414 21114 21321 22413 14343 23234 32313 31341	4710518 Medion	31341 33241
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4711117 Kyoshu	23234	4711295 Midland	11311
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4710458 Lesa	31341 22124 11141 11132 21131 22423 31341 14233 33241	4711186 Monaco	11132
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4711072 LG	11311	4710541 Motion	12141
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4711456 Logix	33241		
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4710553	NAD	22332	13413				4710616	Palladium	14231				
4711124	Naiko	31341							22413	24432	14131	23313	31341
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		22124	23313	12224	14222	14424			14342	22344	22221	31121	13314
		14232	23234						31341				
4710566	NEI	31341	22212	22414			4710622	Panavision	31341	23234			
4710567	Nesco	14424					4710628	Pathe Cinema	13314	14343	14231	23211	22111
4711292	Netsat	31341							21321				
4710568	Network	11311	22212				4710629	Pathe Marconi	14222	12342	14121	14123	22142
4711012	Neufunk	11132	31341	32313					23144	14342	31431		
4710572	New Tech	11132	31341	22224	14232	24111	4710631	Pausa	11132				
4710571	New World	14233					4710632	Perdio	12131	22111	13314	31341	
4710574	Nicamagic	14231					4710633	Perfekt	31341				
4710576	Nikkai	12131	14233	31341	14232	21131	4711460	Pershin	23211				
		11311	11314	22212	14231	11132	4711131	Phase	11311				
		11321					4710634	Philco	12224	12133	23313	12141	14222
		13413							14424	13314	22413	13212	31341
4710577	Nikko	31341	21131				4710635	Philharmonic	14232				
4711249	Noblex	12323	12141	12123	14231		4710636	Philips	31341	11141	11334	12224	14112
4710578	Nobliko	23144	12342	14121	31431				22224	22423			
4710579	Nogamatic	22332	13314	24311	24341	24232	4710639	Phoenix	31341	12224	22111	22413	23112
4710580	Nokia	22214	14211	22423	32424	32243			14231	13314	12131		
		22233					4710640	Phonola	31341	11141	12224	14112	14231
4710582	Nordmende	12342	21244	23144	14121	22224	4711336	Pilot	31341				
		14123	14222	31431	31411	14114	4710642	Pioneer	23341	31341	22413	22224	22332
		22144	31341						12342				
4711013	Novatronic	31341	12332	22423			4711132	Pionier	22413				
4710588	Oceanic	13314	23211	22332	21323	14211	4710644	Plantron	31341	21131	11132		
4712100	Odeon	21131					4711066	Playsonic	14232				
4710590	Okano	22413	31341	21131	12131		4710645	Policom	31431				
4711014	Omega	21131					4710647	Poppy	11132				
4710595	Onwa	32233	22414	14233	23412	32122	4710648	Portland	22423				
4710596	Opera	31341					4711846	Powerpoint	24324				
4710598	Optimus	14433					4710650	Prandoni-Prince	14424	31121	22332	14222	12141
4711299	Optonica	12242					4710651	Precision	14232				
4710599	Orbit	31341					4710655	Prima	11311	11132	21131		
4710602	Orion	14334	21323	13412	22111	22314	4710656	Prinz	12131	11432			
		11134	11132	22112	22341	21331	4710658	Profex	11132	13314			
		12323	23434	31341	21131	23241	4710660	Profitronic	31341	12323			
		31341	14233				4710662	Proline	22112	12131	31341	11141	32412
4711015	Orline	23112	33241				4710664	Prosonic	31341	14231	22413	22423	32114
4711192	Ormond	12131	14233	11311	14232	21131			22414	33241			
4710605	Osaki	21221	23241	22423	31341		4710665	Protech	31341	14232	11132	14424	12323
		31341							21131	23313	22212	33241	
4711193	Osio	14233					4710667	Proton	13413				
4710607	Oso	13242	12131	11321	11311	14233	4710669	Provision	31341				
4710608	Osume						4710672	Pye	22423	31341	11141	12224	
							4710673	Pymi	11132				
							4711067	Quadra Vision	23211				





4710835 Superla 31121 14231  
 4710838 Supertech 11132 14231 31341 14233  
 4710839 Supra 22423 11132  
 4710840 Susumu 22144  
 4710841 Sutron 11132  
 4711319 Swisline 14424  
 4710842 Sydney 14231 14232  
 4710843 Symphonic 13334  
 4711021 Sytong 14231  
 4710849 Tandberg 22344 23234 12342 22212 14121  
 22333 22332  
 4710850 Tandy 14233 12131 14232 14424 21221  
 12242  
 4710852 Tashiko 11321 11334 14232 13213 13333  
 11311 14231 13314  
 4710853 Tatung 12131 31121 14232 11134 31341  
 4710854 Teac 31341 24124 21131 11132 13334  
 23241 13413  
 4710855 TEC 14232 21221 11132 14424 24224  
 22144 22212 21114  
 4711320 Tech Line 31341 33241  
 4712107 Technica 14233  
 4710856 Technema 22111  
 4710857 Technics 14433  
 4711453 Tedelex 14232  
 4711978 Teiron 11132  
 4710866 Teleavia 12342 21244 14121 23144 22142  
 31431  
 4710870 Telecor 31341 13314 14233 14232 21114  
 23133  
 4710872 Telefunken 12342 24413 24224 23144 21244  
 12133 12322 22144 21123 12132  
 22224 14121 31431 32412 31341  
 4711213 Telefusion 31341  
 4710874 Telegazi 31341 13314 21114 14233 21131  
 4710878 Telemeister 22111 31341  
 4710882 Telesonic 31341  
 4710883 Telestar 31341  
 4710884 Teletech 11132 14424 22212 33241 31341  
 4710885 Teleton 14232 21214 14143 13314 21114  
 11321  
 4710887 Televideon 22111 13314 14231  
 4711022 Televiso 23211  
 4710889 Temco 21323  
 4711334 Tempest 11132 31341  
 4710891 Tensai 12331 14233 31341 14232 21323  
 22111 11132 12332 22423 22414  
 22432 14424  
 4711023 Tenson 22111 11132  
 4711471 Tevion 33131 31341 33241  
 4710892 Textet 14232 22423 11132  
 4710895 Thomson 21244 23144 12342 22142 24224  
 22144 14121 14123 14342 22224  
 31431 31411 32412 31341  
 4710897 Thorn 14112 12132 13443 14343 14111  
 12133 12331 22144 22423 11314  
 31341  
 4711329 TMK 13413

4710900 Tokai 12131 31341 24111 22212 13314  
 14232 22423 11132  
 4710901 Tokyo 14231 11314 24111  
 4710902 Tomashi 21233 14233  
 4710905 Toshiba 11314 24441 14414 11321 12123  
 12323 14232  
 4710906 Towada 12323 14232  
 4712109 Toyoda 11132  
 4712110 Trakton 21131  
 4710908 Trans Continens 14232 31341  
 4712111 Transonic 31341 24124 32134  
 4712008 Transtec 14231  
 4710913 Trident 31121 14232  
 4710915 Tristar 14233 14112  
 4710916 Triumph 13412 31121 22233 31341 14414  
 4710919 Uher 12141 31341 11432 14143 22111  
 21344 22423 23313 22413 21114  
 14111  
 4711148 Ultra 12224 12323 22423 14424 14231  
 4710920 Ultravox 13314 14222 31341  
 4711024 Unic Line 31341 24232  
 4711215 United 31341  
 4710929 Universum 22233 12332 31224 14114 24232  
 22332 14424 24341 24311 22413  
 14131 23313 11134 13213 21323  
 11321 13242 11311 12123 13314  
 21131 12331 23322 23234 21313  
 12133 14222 22124 24432 12141  
 14232 12342 22333 22212 13412  
 32424 33241 31341  
 4710930 Univox 22212 12224 31341 13314 14343  
 4710937 Vestel 31341 13314 14232  
 4710938 Vexa 11132 31341  
 4710939 Victor 11422  
 4710942 Videologique 14231 14233 14232  
 4710943 VideoSystem 31341  
 4710944 Videotechnic 14231 22111 14232 22423  
 4711025 Videoton 13314  
 4711322 Vidikron 12323  
 4711330 Vidtech 11321 13413  
 4710947 Viper 22212  
 4710949 Visiola 14231  
 4710950 Vision 31341 22111  
 4710954 Vistar 21221 14143 22332  
 4710956 Vortec 31341  
 4710957 Voxson 12224 12141 31341 23313  
 4710958 Waltham 14232 21221 23313 21244 23112  
 31341  
 4710959 Watson 22111 31341 13314 24233 14222  
 32114 23133 11132 33241  
 4710960 Watt Radio 14222 12323 13314 14231  
 4710961 Wega 14222 11321 12224 31341  
 4711026 Wegavox 11132  
 4710963 Weltblick 31341 22111  
 4711245 Wharfedale 31341  
 4710967 White  
 Westinghouse 22111 14231 31341 22212  
 4711264 Winco 23241

4711027	Windstar	21233					
4710976	Xrypton	31341					
4710979	Yamishi	21233	24124	14233	14232	31341	
4710980	Yokan	31341					
4710981	Yoko	14232	31341	14233	21131	11132	
		23322	22413	22214	14231	14424	
4710983	Yorx	14233					
4710984	Zanussi	14143	14232				
4711219	Zenor	22214					

## Video Recorders

## Videorecorder

## Magnétoscopes

## Vídeos

## Vídeo Gravadores

## Videoregistratori

## Videorecorders

4721028	Adelsound	11121					
4720012	Adlyson	12131					
4720019	Aiwa	21414	11111	11332	14212	22311	
		11322					
4720020	Akai	12333	21434	11422	11332	11221	
		22311	14411				
4720021	Akiba	12131					
4721029	Akitan	21324					
4720023	Akura	21144	12131	11332			
4720024	Alba	21223	12131	22142	22143	14212	
		22311	14111	11221	21324	11111	
		21434					
4720029	Allorgan	14411					
4720032	Allstar	22113	12212				
4720037	Ambassador	11221					
4720042	Amstrad	11111	22122	22141	21223	12131	
4720045	Anitech	12131	22113				
4720047	Ansonic	11121					
4720057	Aristona	12212					
4720060	ASA	11322	12212				
4720070	Asuka	12131	11322	12212	11111		
4720080	Audiosonic	21223					
4720081	Audioton	11221					
4721156	AWA	11322	21223				

4720091	Baird	12333	21223	12331	12334	11332	
		11111					
4720093	Bang & Olufsen	24414					
4720097	Basic Line	21223	14212	11221	12131		
4720107	Bestar	21223	11221				
4720109	Black Panther	21223					
4720113	Blaupunkt	14313	12212	13233	14314	13313	
		11123	14114	11313			
4720114	Blue Sky	11322	14212	12131	22311		
4720118	Bondstec	11221	12131				
4720120	Bosch	12333					
4720123	Brandt	11332	13434	22111	22112	24342	
4720126	Brinkmann	14212					
4721030	Brionvega	22231					
4720139	Bush	12131	21223	21434	22142	22143	
		14212	22311	11111			
4720150	Carena	14212	12212				
4720151	Carrefour	11342					
4720154	Casio	11111					
4720155	Cathay	21223					
4720156	Catron	11221					
4720162	CGE	11332	11111				
4720167	Cimline	12131	14212				
4720172	Clatronic	11221	12131				
4720180	Combitech	22311					
4720187	Condor	11221	21223				
4720197	Crown	21223	12131	11221	22113	21144	
4720205	Daewoo	21223	11221	11342	14212	22311	
4720207	Dansai	12131	21223				
4720210	Daytron	21223					
4720216	de Graaf	11333	13323	12212	12331	11411	
		11343					
4720214	Decca	11111	11332	12212	12114		
4721459	Deitron	21223					
4720999	Denko	12131					
4721000	Diamant	11322					
4720235	Domland	14212					
4720240	Dual	11332	12212	21223	11111		
4720243	Dumont	11111	12212	12331	12332		
4720252	Elbe	21223					
4720253	Elcatech	12131					
4720259	Elin	14411					
4721031	Elsay	12131					
4720263	Elta	12131	21223				
4720265	Emerson	12131	11342				
4720272	ESC	21223	14411	11221			
4720274	Etzuko	12131					
4720280	Europhon	11221					
4720294	Fenner	11221					
4720296	Ferguson	12334	11332	22111	22112	11422	
		24342	11111	21223			
4720299	Fidelity	11111	12131	22122	14411		
4720301	Finlandia	12331	12212	11333	13323	11111	
		11411					
4720302	Finlux	11111	12212	12331	11333	12332	
4720304	Firstline	12131	14212	11322	11342	11333	
		12231	21223				
4720305	Fisher	11344	12331	11343	11221		

4720307 Flint 14212  
 4720319 Frontech 11221 22113  
 4720322 Fujitsu 11111  
 4720323 Funai 11111  
 4720326 Galaxi 11111  
 4720331 GBC 11221  
 4720335 GEC 12212  
 4720337 General 11221  
 4720339 Genexxa 12331  
 4720345 Goldhand 12131  
 4720347 GoldStar 11322 11111  
 4720349 Goodmans 11111 12131 14411 21223 11443  
 11322 11221 22224 12212 14212  
 11332 12331 14411 22231  
 4720352 Graetz 12331 11343 11411 12212 11123  
 4720353 Granada 14411 11322 14313 11333 11111  
 12131 11322 11221 11111 21223  
 14212  
 4720355 Grundig 11124 14114 12212 14313 11123  
 22111  
 4721108 Hanimex 21324 22311  
 4720362 Hanseatic 11322 14212 21223 12212  
 4720364 Hantor 11221  
 4721084 Harwood 12131  
 4720370 HCM 12131 22113  
 4720377 Hinari 11121 12131 14211 14212 22311  
 11332 22113 12231 22224 21223  
 14212 22311  
 4720380 Hisawa 11333 13323 12332 11332 11111  
 4720381 Hitachi 14411 12212 11121 12331  
 12212  
 4721085 Hornophone 12131 14212 21223 22311  
 4720391 Hypson 11221  
 4720394 Impego 11111 14411  
 4720395 Imperial 11121 14212 14411  
 4720398 Ingersoll 11221 14411 21223 22113 12131  
 4720401 Inno Hit 11322 12131  
 4720404 Interbuy 12212 12331  
 4720405 Interfunk 21223  
 4721113 Internal 21223  
 4721114 International 11111 21223 11322 14212  
 4720408 Intervision 12131 11322 12212  
 4720410 Irradio 12333 11332 11343 22231 23111  
 4720415 ITT 12331 14411  
 11411  
 4720416 ITT Nokia 21223 11322 11221  
 4720417 ITV 11332 12114 23111  
 4720425 JVC 12131  
 4720427 Kaisui 12123  
 4720430 Karcher 21223  
 4720432 Kendo 12333 14212 21434 11422 12131  
 11322  
 4720434 Kenwood 11332  
 4721032 Kimari 11344  
 4720438 Kneissel 22311 14212 11322  
 4720443 Korpel 12131  
 4720448 Kuba 11344  
 4722095 Kuwa 14313  
 4720451 Kyoto 12131

4720471 Leyco 12131 12231  
 4721072 LG 11322 11111 21223  
 4720473 Lifetec 14212  
 4720472 Loewe 12212 11123 11322 12332 11121  
 13313  
 4720474 Logik 11121 14411 12131 12333 14212  
 4721009 Lumatron 21223  
 4720485 Luxor 12333 11343 12131 11443 12331  
 11344 11411  
 4720492 Magnavox 12212  
 4720496 Manesth 12131 11342 12212 14212  
 4720500 Marantz 12212 11123 11443 21324 14212  
 4720504 Mark 21223 11221  
 4721033 Marquant 22113  
 4720508 Matsui 14212 11121 14111 21324 11322  
 14211 12231 14411 22311 22141  
 11111  
 4720517 Mediator 12212  
 4720518 Medion 14212 22311  
 4720487 Melectronic 11111 11322  
 4720520 Memorex 12331 11111 11343 11322 11411  
 11344  
 4720521 Memphis 12131  
 4720525 Metz 14114 12212 13313 14313 14314  
 11123  
 4721317 Micromaxx 14212  
 4720529 Migros 11111  
 4720531 Minerva 14114  
 4720535 Mitsubishi 12114 12212  
 4720547 Multitech 11111 12131 11221 12331 22113  
 11111  
 4720551 Murphy 11111  
 4720553 NAD 12331  
 4720562 National 14313 13313  
 4720564 NEC 11332 12114 11331 12331 11322  
 4720565 Neckermann 11332 14211 11123 12212 22231  
 4720567 Nesco 12131 11111 22311  
 4721012 Neufunk 14212  
 4720576 Nikkai 11221 12131 21223  
 4720580 Nokia 12331 12333 21434 11332 21223  
 11343 22231 14411 11411 11333  
 12212  
 4720582 Nordmende 11332 23111 22111 22112 13434  
 24343 31211 12114 24342  
 4720588 Oceanic 11111 11411 12333 12212 12331  
 11332 11343  
 4720590 Okano 21434 14212 12131 22113 21223  
 4720602 Orion 14212 11121 12231 14211 21324  
 22311 22224 22142 22143  
 4720604 Orson 11111  
 4720605 Osaki 11111 11322 12131  
 4720609 Otake 22142 22143  
 4720610 Otto Versand 12212  
 4720616 Palladium 12131 21434 11322 11332 11123  
 14212 11121 14411  
 4721129 Palsonic 12131 11111  
 4720620 Panasonic 13313 14313 14314 14312  
 4720628 Pathe Cinema 11121  
 4720629 Pathe Marconi 11332



4720979	Yamishi	12131	21223		
4720980	Yokan	12131			
4720981	Yoko	11322	12131	11221	14411
4721220	ZX	14212			

## Satellite Receivers

## Satellitenempfänger

## Récepteurs satellites

## Receptores de satélite

## Receptores de satélite

## Ricevitori via Satellite

## Satelliet-ontvangers

4730994	ABSat	11224			
4730013	Aegir	31131			
4730016	AGS	33241			
4730020	Akai	31114	14131		
4731153	Akena	33241			
4730024	Alba	23322	31114	24124	22333 32322
		34132	34243		

4730027	Aldes	21311	22333	31131	34243
4730030	Allsat	14131	22341	13424	34243
4730031	Allsonic	21311	22412		
4730033	Alltech	32133	34132		
4730034	Alpha	33241	14131		
4730036	Altai	23141			
4730039	Amitronica	34132			
4730040	Ampere	23141	13121	11223	
4730042	Amstrad	11232	22232	14441	14414 34132
		34323	23141	13121	11241 11312
		11313			

4730044	Anglo	34132			
4730046	Ankaro	21311	14232	22412	14241 34132
4730049	Anttron	23322	13424	32322	
4730050	Apollo	23322			
4730056	Arcon	14232	33421		
4730058	Armstrong	14414	14131		
4730060	ASA	23142			
4730061	ASAT	14131			
4731154	ASLF	34132			
4730064	AST	22244	22112		
4730065	Astacom	33241	34123		
4730067	Aston	24133			

4730068	Astra	12341	31213	31234	31112 14414
		32244	22233		
4730069	Astro	13342	22323	31131	32322 22412
		24422	33213		

4730071	Athena	33241			
4730081	Audioton	22341	32322		
4730082	Aura	31234			
4731155	Austar	11241	33113	24412	11244
4731037	Avalon	23141			
4730088	Axiel	33241			
4730089	Axis	31213	22412	22343	11231
4730095	Barcom	14232	12341		
4730103	Beko	24124			
4730106	Best	14232	22412		
4730113	Blaupunkt	13342			
4730114	Blue Sky	34132	11313		
4730117	Boca	14414	32142	31112	33334 13121
		11144	11223		

4730122	Brain Wave	22141	33421		
4730129	Broadcast	22233			
4730130	Broco	31213	34132		
4731070	BskyB	11232			
4731531	BT	31114	33241	34123	
4731038	Bubu Sat	34132			
4730139	Bush	22131	13424	22333	
4731039	BVV	33421			
4730143	Cambridge	31114	33334	24422	
4730995	Canal Satellite	11233	21321		
4731159	Carat.Som	22343			
4730163	Channel Master	22333			
4731458	Chess	13242	32242		
4730170	Citycom	23133	12414	32244	11221
4731099	Clark	32322			
4730172	Clatronic	22141			
4730174	Clemens Kamphus	24423	11231		
4730176	CNT	31131			
4730177	Colombia	33241			
4730179	Columbus	21332			
4730182	Commander	14241			
4730183	Commlink	21311			
4731101	Comunicado	22343			
4730185	Comtec	21311	22343		
4730187	Condor	22412	32244		
4731355	Conifer	11121			
4730189	Connexions	24133	23141	22412	
4730190	Conrad	32244	32142	31442	12414 22412
		24422	11213		

4730191	Contec	23133	32142	22343	
4730193	Cosat	32211	22341		
4730197	Crown	14414			
4730198	Cryptovision	24124			
4731092	D-box	34214	11243		
4730205	Daewoo	34132	23322		
4730208	Dansat	13424			
4731040	Daumling	11144			
4730213	DDC	22333			
4731161	Delfa	11241			
4730221	Dew	22343			

4730222 Diamond 32133  
 4731300 Discoverer 32242  
 4730227 Discovery 33241  
 4731041 Diseqc 34123  
 4730229 Disk Express 14232  
 4731352 Distratel 12221 11313  
 4730230 Distrisat 14131 32211  
 4730233 DNR 33421  
 4730234 DNT 14131 24133 23141  
 4731042 DST 23322  
 4730244 Dune 22412  
 4730248 Echostar 23141 24123 33241 34132 11233  
 11242  
 4730250 EIF 23312  
 4730251 Einhell 14414 23322 21311 14441 31112  
 34132 24422 13121 11144  
 4730255 Elekta 31131  
 4730263 Elta 22341 23322 14131 22412  
 4730264 Emanon 23322  
 4730266 Emme Esse 22412 24423 22131 11242  
 4731043 Engel 34132  
 4730268 EP Sat 24124  
 4730275 Eurieult 23312 13131 12221 11313  
 4731044 Eurocrypt 24124 12341  
 4730279 Europa 14241 32142 24422 14131 32244  
 11241  
 4731045 European 11144  
 4730282 Eurosat 14414 32133  
 4730283 Eurosky 14414 22412 32244 21244 13121  
 12414  
 4730285 Eurostar 31234 32244 11311  
 4730289 Exator 23322 31114 32322  
 4731046 Fagor 32211 22341  
 4730294 Fenner 33241  
 4730296 Ferguson 13424 24124 22211 22131 34124  
 4730299 Fidelity 14441 24422  
 4730301 Finlandia 24124 12341  
 4730302 Finlux 24124 12341 23243 31442  
 4731165 Flair Mate 34132  
 4731301 Foxtel 11244 34211 24412  
 4730315 Fracarro 23322 33241 11242  
 4730316 France Satellite 21332  
 4730317 Freecom 22144 23322 34243  
 4730320 FTE 22134 33334 32142 22412 34132  
 4730321 Fuba 21332 14232 22412 23141 23322  
 23312 13342 23243 31442 23133  
 12341  
 4730325 G-Sat 13424  
 4730326 Galaxi 14232  
 4730327 Galaxis 22343 21311 22341 31213 32211  
 22412 33421 11214 11231 11233  
 11241  
 4730328 Galaxisat 22112  
 4731449 Gardiner 11221  
 4730344 GMI 14414  
 4731168 Goldbox 11233 21321  
 4730347 GoldStar 22144  
 4730349 Goodmans 24124

4730353 Granada 12341  
 4730354 Grandin 23312 12221 13131  
 4730355 Grundig 11232 13342 22131 31434 34343  
 22322 11212 11244 11313  
 4730362 Hanseatic 32242  
 4730364 Hantor 23322 22141  
 4730365 Hanuri 31131  
 4731677 Harting und  
 Helling 24423  
 4731047 Hase & Igel 33421  
 4730371 Heliocom 32244  
 4730377 Hinari 22333 13424 23322  
 21244 23142 23143 13342 31442  
 4730379 Hirschmann 24344 23433 24423 24422 23141  
 34123 34412  
 4730380 Hisawa 22141  
 4730381 Hitachi 22131 24124  
 4731171 HNE 34323  
 4730385 Houston 32211 14241 33241  
 11241  
 4731172 Humax 22233 32244 22141 22341 22343  
 21311 14241 32142 24423 14414  
 13121 11144  
 4730391 Hypson 23312 13131  
 4731175 Imex 12221 13131  
 4731114 International 13121  
 4730407 Intertronic 14414  
 4730408 Intervision 32211 32421 32244 22341  
 4731345 Invideo 11242  
 4731302 Italtel 11242  
 4730416 ITT Nokia 12341 22131 31442 24124 23142  
 34214 11243  
 4730423 Johansson 22141 22341  
 4730424 Jok 34123  
 4730425 JVC 31114 31434  
 4731048 K-SAT 34132  
 4731176 Kamm 11311 34132  
 4730431 Kathrein 22134 22323 13342 23133 23433  
 24431 24311 14131 32343 12241  
 33213 34132 32322 33241 11221  
 11321  
 4730436 Key West 11144  
 4732094 Kiton 12413  
 4730440 Kolon 23322  
 4731454 Konig 32244  
 4731439 Koscom 11231  
 4730445 Kosmos 22134 23433 22144 24423  
 4730446 KR 32322 32211  
 4730447 Kreiselmeier 13342  
 4730450 KyoStar 23322 32322  
 4731304 L&S Electronic 22412  
 4730453 Lasat 31112 31131 22412 32244 22343  
 14414 33334 12414 13121 13242  
 11213  
 4731049 Lemon 33421  
 4730454 Lenco 22144 14241 23322 34132 33421  
 31213 12414 22412 32244  
 4730455 Lennox 32211

4730457 Lenson 24422  
 4730460 Lexus 14131  
 4730471 Leyco 31114  
 4731072 LG 22144  
 4730462 Lifesat 32242 22412  
 4730472 Loewe 14414  
 4730475 Lorenzen 14241 33421 32244 34323 13121  
 11144  
 4730476 Lorraine 22144  
 4730479 Lupus 22412  
 4730485 Luxor 12341 22232 31442 24422 11243  
 4730486 M&B1 31234 32242  
 4730489 Macab 11121 32133  
 4731050 Manata 34123 33241 13131 23312 34132  
 4730497 Manhattan 24124 32211 22131 31131 22341  
 34123 33241 11231  
 4730500 Marantz 14131  
 4731051 Marave 23312  
 4730505 Mascom 23433  
 4730506 Maspro 12241 22211 22131 24344 34343  
 34132 13342 31434 33421  
 4731052 Master's 23133  
 4730508 Matsui 31434 34123 22333 13342  
 4730509 Max 32244  
 4730511 MB 32242  
 4731053 Mediabox 11233 21321  
 4730515 Mediamarkt 14414  
 4730516 Mediasat 11233 31213 24422 21321  
 4730518 Medion 34132 22412  
 4731120 Medison 34132  
 4730519 Mega 14131  
 4730487 Meletronic 11221  
 4730524 Metronic 23322 23312 14414 32322 21311  
 31131 12221 13131 11221 11313  
 4730525 Metz 13342  
 4731123 Micro 32244 32322 11213  
 4731054 Micro Electronic 34132  
 4730527 Micro Technology 31234 34132 31213  
 4731185 Microtec 34132  
 4730531 Minerva 31434  
 4730535 Mitsubishi 24124  
 4730537 Mitsumi 31112  
 4730540 Morgan's 14414 14131 31112 33334 34132  
 22341 32142 13121 11144 11223  
 4731305 Multichoice 33113 11244  
 4730546 Multistar 22134  
 4731452 Multitec 13242  
 4730550 Muratto 22144 22112  
 4730552 Mysat 34132  
 4730563 Navex 22141  
 4730568 Network 13424  
 4730569 Neuhaus 31213 24422 14241 32142 33421  
 32211 34132 32244 11231  
 33421 34132 11231  
 4730570 Neusat 14414 34132 34214 34243  
 4730577 Nikko 22131 12341 34214 31442 24124  
 23142 34214 34344 11233 11243  
 34413

4730582 Nordmende 22333 24124 31131 23322  
 4731360 Norsat 11121  
 4730584 Novis 22141  
 4730586 NTC 24423  
 4730588 Oceanic 32133  
 4730589 Octagon 23322 14241 22343 32322  
 4730590 Okano 14414 24423 22134  
 4731069 OnDigital 13122 14412 34344  
 4730597 Optex 23133 32211 22341 23312  
 4731055 Optima 24423  
 4731447 Optus 11244  
 4730599 Orbit 22244 33134 34414  
 4730600 Orbitech 24422 32142 31242 23322 21123  
 13242  
 4730601 Origo 24412  
 4730606 Osat 22232  
 4730611 Oxford 31114 33241  
 4730612 Pace 11232 24124 22131 11143 13424  
 22211 14412 34211 24412 14344  
 11211 11314  
 4730613 Pacific 32133  
 4731441 Packsat 34123  
 4730615 Palcom 21332 22333  
 4730616 Palladium 14414 31434 23322 24422  
 4730617 Palsat 24422 21332  
 4731130 Panasat 11244  
 4730620 Panasonic 11232 24124 22131  
 4730623 Panda 24124 12341 32244 13342 11213  
 11231  
 4730627 Paristad 23312  
 4730630 Patriot 31114 33241  
 4730636 Philips 14131 21321 14241 13424 24124  
 22131 33234 34343 34123 32322  
 32142 14232 33241 31434 13342  
 13122 11212 11221 11233 11321  
 22343 13424  
 4730639 Phoenix 22343 13424  
 4730641 Phonotrend 21311 32211 22341 24423 11241  
 4730642 Pioneer 11233 21321  
 4731133 Planet 11242  
 4730646 Polytron 23133 23141  
 4730652 Predki 22141 23322  
 4730653 Preisner 14414 31112 32142 13121 23141  
 33334 11144  
 32211 24423  
 4730654 Premier 11233 21321 11243  
 4731056 Premiere 34243  
 4731853 Pro Visat 33241  
 4730661 Profile 33241  
 4730663 Prosat 21311 22333 32421  
 4730664 Prosonic 34323  
 4730666 Protek 32133  
 4730669 Provision 31131  
 4730672 Pye 31434  
 4731087 Pyxis 11231  
 4730676 Quadral 22333 21311 22412 32142 32421  
 33241 34123  
 14441 32244 34323 12414  
 4730678 Quelle 14131  
 4730684 Radiola 23141  
 4730687 Radix 23141 24133 11312





4730952	Visiosat	22244	34132		
4730955	Viva	14241			
4730956	Vortec	21244	23322		
4730931	Vtech	22244	22112	33134	11221
4730962	Wela	32142	34132	13121	11144
4731091	WeTeKom	13242	32242	24422	11223
4730966	Wewa	24124			
4731217	Wibo	14414			
4730968	Winersat	22141			
4731062	Wintergarten	21311			
4730969	Wisi	32443	13342	22112	11121 22421
		33134	23141	32142	23223 24124
		22244	24422	32244	11231
4730971	Woorisat	31131			
4730972	World	22141			
4732113	Worldsat	33241	34123	34412	
4730976	Xrypton	22412			
4731151	Xcom	11224			
4730993	Xsat	33241	34132	11224	
4732070	Zaunkonig	33421			
4730986	Zehnder	22112	22134	31131	24431 22412
		34323	23133	12413	14232 12414
		11221			
4730987	Zenith	11234			
4731064	Zeta Technology	14131			
4730989	Zodiac	32322			
4730990	Zwergnase	14414	11144		

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## Cable Converters

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## Kabelsignalumwandler

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## Décodeurs de câble

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## Decodificadores

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## Conversores de Cabo

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## Convertitori di reti

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## Kabel Decoders

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4730025	Alcatel	11141	11142		
4731155	Austar	21221			
4731531	BT	12332			
4730141	Cabletime	21144	24111	33232	
4731564	Comcrypt	23434			
4731583	Decsat	23324			

4731641	Filmnet	23434			
4730996	France Telecom	11134	24114		
4731076	General				
	Instruments	21221			
4730421	Jerrold	11114	21221		
4731341	Kabelvision	11114			
4730489	Macab	11134			
4731782	MNet	23434			
4732098	Mr Zapp	11134			
4732072	NTL Cabletell	21221			
4731447	Optus	21221			
4730612	Pace	33333			
4730636	Philips	24114	11134		
4731065	PVP Stereo				
	Visual Matrix	11114			
4730718	Sagem	11134			
4730748	Scientific Atlanta	11131	21222		
4730864	Tele+1	23434			
4730879	Telepiu	23434			
4730925	United Cable	11114			
4730951	Visiopass	24114	11134		
4732055	Westminster	12332			

\* Excludes a few models in the LS, LX and MX series.

\* Ausschließlich einige Modelle der LX, LS und MX Serie.

\* Exclut quelques modèles de la serie LX, LS et MX.

\* Excluye unos pocos modelos de la serie LX, LS y MX modelos.

\* Exclui alguns modelos da série LX, LS y MX.

\* Sono esclusi modelli della serie LX, LS e MX.

\* Exclusief een paar modellen in de LX, MX en LS serie.

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